



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: **RG14620**
产品别名: **Tyrphostin RG14620**

生物活性:						
Description		RG14620 is an EGFR inhibitor with an IC ₅₀ of 3 μM.				
IC ₅₀ & Target		EGFR				
		3 μM (IC ₅₀ , Cell Assay)				
In Vitro		RG14620 inhibits colony formation (IC ₅₀ =3 μM) and DNA synthesis (IC ₅₀ =1 μM) by HER 14 cells, which are stimulated by 50 ng/mL EGF, in a dose-dependent manner. RG14620 also suppresses colony formation(IC ₅₀ =4 μM) and DNA synthesis (IC ₅₀ =1.25 μM) by EGF-stimulated MH-85 cells in a dose-dependent manner. The growth-inhibitory effect of RG14620 irreversible ^[2] .				
In Vivo		RG14620, at a dose of 200 g/mouse/day inhibits H-85 tumor growth in nude mice. Mice show less cachexia and hypercalcemia, eat more food, and are more active than untreated MH-85 tumor-bearing animals ^[2] .				
Solvent&Solubility		<i>In Vitro:</i> DMSO : ≥ 26 mg/mL (94.50 mM) * "≥" means soluble, but saturation unknown.				
		Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
			1 mM	3.6346 mL	18.1732 mL	36.3465 mL
			5 mM	0.7269 mL	3.6346 mL	7.2693 mL
			10 mM	0.3635 mL	1.8173 mL	3.6346 mL
		*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限：-80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。				
References		[1]. Sagara Y, et al. Tyrphostins protect neuronal cells from oxidative stress. J Biol Chem. 2002 Sep 27;277(39):36204-15. [2]. Yoneda T, et al. The antiproliferative effects of tyrosine kinase inhibitors tyrphostins on a human squamous cell carcinoma in vitro and in nude mice. Cancer Res. 1991 Aug 15;51(16):4430-5.				
实验参考:						
Cell Assay		MH-85 cells and HER 14 cells are plated in complete medium, either αMEM or DMEM, respectively, supplemented with 10% FCS. After overnight culture, the culture medium is switched to αMEM supplemented with 0.2% PCS and 50 ng/mL EGF (MH-85) or DMEM supplemented with 0.5% PCS and 50 ng/mL EGF (HER14). The cells are cultured in this medium in the presence or absence of increasing concentrations of RG-13022 or RG-14620 for 10 days. At the end of culture, the cells are fixed with 4% (v/v) formaldehyde in calcium-magnesium-free phosphate-buffered saline for 15 min at room temperature and stained with hematoxylin. Numbers of colonies including more than 20 cells in each well are counted under the microscope ^[2] .				
Animal Administration		Mice: RG14620 in 0.1 mL 100% DMSO is injected i.p. twice a day from 1day after MH-85 tumor inoculation. Control animals are given the same vehicle ^[1] .				



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